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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,686	03/30/2004	M. Youssouf Badal	134.02US	8305

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H. THOMAS ANDERTON, JR.
345 OYSTER POINT BLVD
SOUTH SAN FRANCISCO, CA 94080

EXAMINER

PHAM, AUDREY S

ART UNIT	PAPER NUMBER
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1642

DATE MAILED: 02/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/814,686	Applicant(s) BADAL ET AL.	
	Examiner Audrey S. Pham	Art Unit 1642	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☒ Claim(s) 1-23 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Re: Badal *et al.*

Claims 1-23 are pending.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-6, 8-16, 21-22, drawn to a method of determining disease status of a patient suffering from a disease, wherein the disease is cancer, comprising measuring directly in a patient sample an amount of each of one or more intracellular complexes, comparing each amount to its corresponding amount in a reference sample, and correlating differences in the amounts from the patient sample and the respective corresponding amounts from the reference sample to the disease status of the patient., classified in class 435, subclass 7.23.

NOTE: Upon election of group I above, Applicant must further elect ONE intracellular complex from those listed in Claims 3, 4, 8, 10, 14 and 15 because each complex has a distinct etiology, function, and structure. As such, each complex represents a separate invention group, requiring a divergent literature search. Note this is not an election of species. Applicant is reminded that any claims not reading on the elected complex will be withdrawn as being drawn to a non-elected invention.

- II. Claims 1-4, 6-8, 10, 16 drawn to a method of determining disease status of a patient suffering from a disease, wherein the disease is an inflammatory condition, comprising measuring directly in a patient sample an amount of each of one or more intracellular complexes, comparing each amount to its corresponding amount in a reference sample, and correlating differences in the amounts from the patient sample and the respective corresponding amounts from the reference sample to the disease status of the patient, classified in class 435, subclass 4.

NOTE: Upon election of group II above, Applicant must further elect ONE intracellular complex from those listed in Claims 3, 4, 8, 10 because each complex has a distinct etiology, function, and structure. As such, each complex represents a separate invention group, requiring a divergent literature search. Note this is not an election of species. Applicant is reminded that any claims not reading on the elected complex will be withdrawn as being drawn to a non-elected invention.

- III. Claims 17-20, 23, drawn to a method of determining an apoptotic status of cells in a sample, the method comprising the step of simultaneously measuring amounts of one complex, classified in class 435, subclass 7.23.

NOTE: Upon election of group III above, Applicant must further elect ONE complex from those listed in Claims 17 and 23 because each complex has a distinct etiology, function, and structure. As such, each complex represents a separate invention group, requiring a divergent literature search. Note this is not an election of species. Applicant is reminded that any claims not reading on the elected complex will be withdrawn as being drawn to a non-elected invention.

The inventions are distinct, each from the other for the following reasons:

The inventions of Groups I-III are materially distinct methods, which differ at least in objectives, method steps and reagents. Specifically, group I is drawn to a method of determining a disease status in cancer patients whereas group II is drawn to a method of determining a disease status in a patient population suspected or has inflammatory conditions. Group III is an *in-vitro* method drawn to determining an apoptotic status of cells in a sample. Each group also differs in the reagents and steps they use to accomplish the various objectives. For example, the invention of group I includes using certain intracellular complexes (e.g., recited in claims 14-15) that are not encompassed in the invention of group II. Searching all of the groups with all of the different reagents, steps or objectives would invoke a high burden of search because the searches would not be coextensive.

These inventions are distinct for the reasons given above and they have acquired separate statuses in the art as shown by their different classifications. The search required for one group is not required for the other groups and vice versa. For these reasons, restriction for examination purposes as indicated is proper.

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Applicant is reminded that the reply to this requirement to be completed must include an election of the invention to be examined even though the requirement be traversed (See 37 CFR 1.143).

Species Election

One or more of the invention groups above contain multiple generic claims that include a plurality of alternatively usable substances or members. These alternative limitations are independent or distinct inventions such that they do not share a common utility or share a substantial structural feature disclosed as being essential to that utility. Because they are not so closely related, a search and examination of the entire claim cannot be made without undue burden. The members of the alternative groupings are described in the following:

Groups I-II (Claim 2) is generic to a plurality of disclosed patentably distinct species comprising the following patient samples: fixed tissues sample, frozen tissue sample, circulating epithelial cells.

The above species represent separate and distinct patient samples that differ at least in etiology, pathology, and mechanisms such that one species could not be interchanged with the other. As such, each species would require different searches and the consideration of different patentability issues.

Additionally, Group I (Claim 12) is generic to a plurality of disclosed patentably distinct species comprising the following cancers: breast, ovarian, colorectal, or prostate.

The above species represent separate and distinct cancer with different etiology, pathology, and mechanisms such that one species could not be interchanged with the other. As such, each species would require different searches and the consideration of different patentability issues.

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Upon election of Group I or II, Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Inventorship Amendment

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended to be in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request, as set forth in 37 CFR 1.48(b), and by a processing fee, as set forth in 37 CFR 1.17(i).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Audrey S. Pham whose telephone number is (571) 272-3323. The examiner can normally be reached during the hours of 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew, can be reached during business hours at the telephone number: (571) 272-0787. The fax number for the organization, where this application or proceeding is assigned, is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Audrey S. Pham
Patent Examiner
Art Unit 1642



**GARY B. NICKOL, PH.D.
PRIMARY EXAMINER**